

Forschungspraxis

Generating 3D facial expressions from speech

Under this topic, the student should investigate Deep Learning approaches for animating faces of characters from speech signals. This involves generating facial expressions as well as lip/mouth movements according to what's being said in the speech signal.

References:

[1] NVIDIA audio2face <https://www.nvidia.com/de-de/omniverse/apps/audio2face/>

[2] Emotional Voice Puppetry
<https://napier-repository.worktribe.com/preview/3033680/EmotionalVoicePuppetry.pdf>

Prerequisites

- Familiarity and first experiences with Computer Vision and Deep Learning
- Strong Python programming skills
- Strong interest in 3D Computer Graphics and Computer Vision

Contact

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Advisors

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